

## Effects of controls

- **Function of Elevator**
  - Primary function: Pitch
  - Secondary function: Airspeed
- **Function of Aileron**
  - Primary function: Roll
  - Secondary function: Yaw
- **Function of Rudder**
  - Primary function: Yaw
  - Secondary function: Roll

## Effect on controls

- **What is the effect on controls of airspeed?**
  - **Fast** causes firm and responsive controls.
  - **Slow** causes sloppy and less responsive controls.
- **What is the effect on controls of power?**
  - **High power** causes nose up pitch and left yaw, requiring right rudder.
  - **Low power** causes nose down pitch and right yaw, requiring left rudder.
- **What is the effect on controls of Slipstream?**

**High power** causes the left yaw corkscrew effect and tail controls become more effective.

## Ancillary Controls

- **Throttle**

Push for Power
- **Mixture (carburetor)**
  - Forward: rich
  - Backward: lean

- **Heat**
  - Hot air to carburetor to de-ice.
  - Back: on
  - Forward: off
- **Fuel tanks/selector**
  - Selects required tank, or both.
- **Trimming**
  - Most commonly trimmed: Elevator, Rudder.
- **Flaps**
  - Increase forward visibility (change in camber).
  - Increase lift production.
  - Use with airspeed in white arc (airspeed indicator).